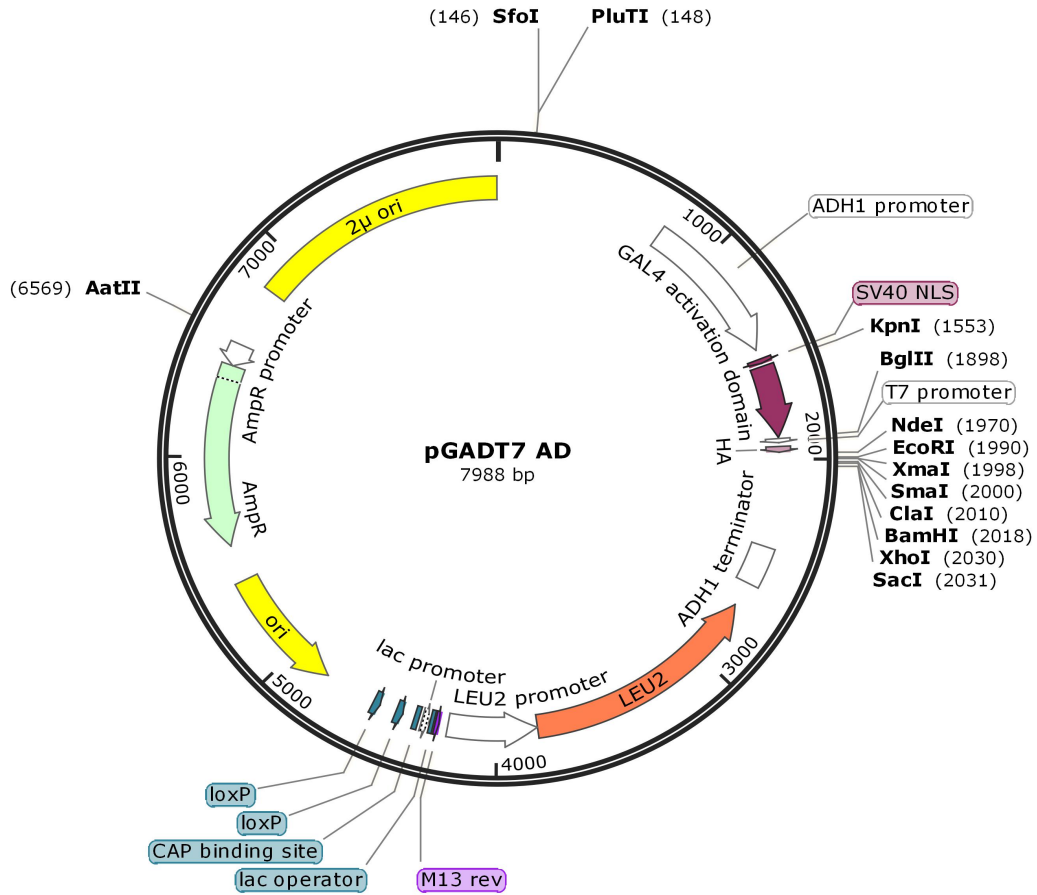


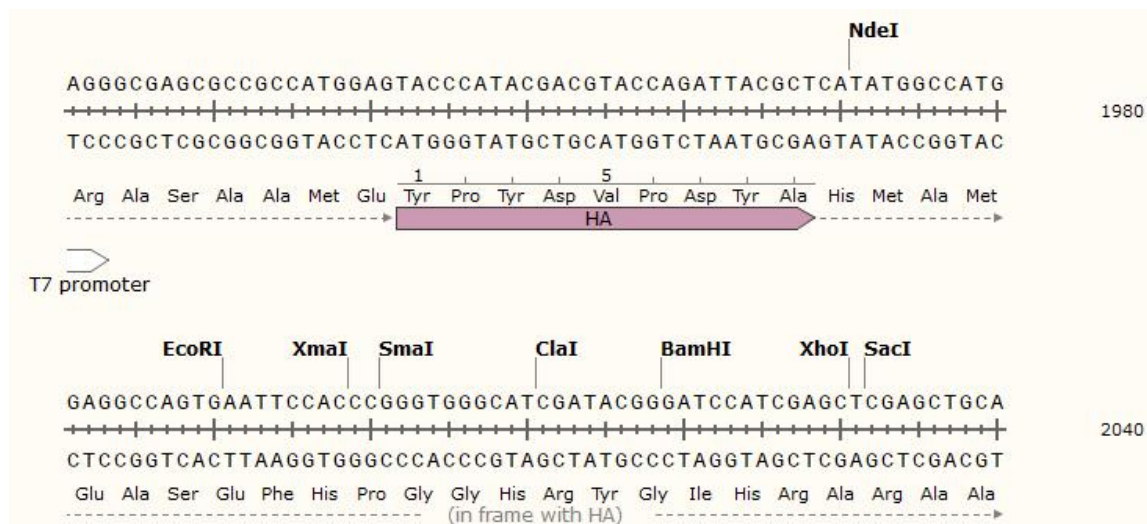
pGADT7 AD Vector Information

Created with SnapGene®



载体名称: pGADT7 AD
 质粒类型: 酿酒酵母（真核）表达载体
 表达水平: 高拷贝
 启动子: T7 promoter
 克隆方法: 多克隆位点，限制性内切酶
 克隆位点: MCS
 载体大小: 7988bp
 5' 测序引物及序列: T7: TAATACGACTCACTATAGGG
 3' 测序引物及序列: --
 载体标签: HA
 载体抗性: Amp
 筛选标记: LEU2
 产品目录号:
 稳定性: --
 组成型/诱导型: --
 病毒/非病毒: 非病毒
 克隆菌株: 酵母细胞

MCS ☒:



LOCUS Exported 7988bp ds-DNA circular SYN 01-JUN-2019
 DEFINITION synthetic circular DNA
 ACCESSION .
 VERSION .
 KEYWORDS pGADT7 AD
 SOURCE synthetic DNA construct
 ORGANISM synthetic DNA construct
 REFERENCE 1 (bases 1 to 7988)
 AUTHORS aaaaaa
 TITLE Direct Submission
 JOURNAL Exported Saturday, June 1, 2019 from SnapGene 3.2.1
<http://www.snapgene.com>

FEATURES Location/Qualifiers
 source 1..7988
 /organism="synthetic DNA construct"
 /mol_type="other DNA"
 promoter 771..1476
 /gene="S. cerevisiae ADH1"
 /note="ADH1 promoter"
 /note="promoter for alcohol dehydrogenase 1"
 CDS 1522..1542
 /codon_start=1
 /product="nuclear localization signal of SV40 large T antigen"
 /note="SV40 NLS"
 /translation="PKKKRKV"
 CDS 1558..1899
 /codon_start=1

/gene="Saccharomyces cerevisiae GAL4 (truncated)"
 /product="activation domain of the GAL4 transcriptional activator"
 /note="GAL4 activation domain"
 /translation="ANFNQSGNIADSSLSFTFTNSSNGPNLITTQTNSQALSQPIASSN
 VHDNFMNNEITASKIDDGNNKPLSPGWTDQTAYNAFGITTMFNTTTMDDVYNYLFDD
 EDTPPNPKKE"

promoter 1905..1923
 /note="T7 promoter"
 /note="promoter for bacteriophage T7 RNA polymerase"

CDS 1942..1968
 /codon_start=1
 /product="HA (human influenza hemagglutinin) epitope tag"
 /note="HA"
 /translation="YPYDVPDYA"

terminator 2416..2603
 /gene="S. cerevisiae ADH1"
 /note="ADH1 terminator"
 /note="transcription terminator for alcohol dehydrogenase 1"

CDS complement(2720..3814)
 /codon_start=1
 /gene="S. cerevisiae LEU2"
 /product="3-isopropylmalate dehydrogenase, required for leucine biosynthesis"
 /note="LEU2"
 /note="yeast auxotrophic marker"
 /translation="MSAPKKIVVLPGDHVGQETAEAIKVLKAI SDVRSNVKFD FENHL
 IGGAAIDATGVPLPDEALEASKKVDVLLGAVGGPKWGTG SVRPEQGLLKIRKELQLYA
 NLRPCNFASDSLSDLSPKQFAKGTDFVVVRELVGGIYFGKRKEDDGDGVAVDSEYQT
 VPEVQRITRMAAFMALQHEPPLPIWSLDKANVLASSRLWRKTVEETIKNEFPTLKVQHQ
 LIDSAAMILVKNPHTLNGI IITSNMFGDIISDEASVIPGSLGLLPSASLASLPDKNTAF
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 DLGGSNSTEVGDAVAEEVKILA"

promoter complement(3815..4220)
 /gene="S. cerevisiae LEU2"
 /note="LEU2 promoter"

primer_bind complement(4262..4278)
 /note="M13 rev"
 /note="common sequencing primer, one of multiple similar variants"

protein_bind 4286..4302
 /bound_moiety="lac repressor encoded by lacI"
 /note="lac operator"

/note="The lac repressor binds to the lac operator to inhibit transcription in E. coli. This inhibition can be relieved by adding lactose or isopropyl-beta-D-thiogalactopyranoside (IPTG)."
 promoter complement(4310..4340)
 /note="lac promoter"
 /note="promoter for the E. coli lac operon"
 protein_bind 4355..4376
 /bound_moiety="E. coli catabolite activator protein"
 /note="CAP binding site"
 /note="CAP binding activates transcription in the presence of cAMP."
 protein_bind complement(4431..4464)
 /bound_moiety="Cre recombinase"
 /note="loxP"
 /note="Cre-mediated recombination occurs in the 8-bp core sequence (GCATACAT)."
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 /note="Cre-mediated recombination occurs in the 8-bp core sequence (GCATACAT)."
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 PVTEKHLTDGMTVRELCSAAITMSDNTAANLLTTIGGPKELTAFLHNMGDHVTRLDRW
 EPELNEAIPNDERDTMPVAMATTLRKLLTGELLTLASRQQLIDWMEADKVAGPLLRSA
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 LIKHW"
 promoter complement(6435..6539)
 /gene="bla"
 /note="AmpR promoter"
 rep_origin 6821..7985

/note="2u ori"

/note="yeast 2u plasmid origin of replication"

ORIGIN

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61 AAGGAGCATG AAGGCAAAAG ACAAATATAA GGGTCGAACG AAAAAATAAG TGAAAAGTGT
121 TGATATGATG TATTTGGCTT TGCGGCGCCG AAAAAACGAG TTTACGCAAT TGCACAATCA
181 TGCTGACTCT GTGGCGGACC CGCGCTCTTG CCGGCCCGGC GATAACGCTG GCGGTGAGGC
241 TGTGCCCGGC GGAGTTTTTT GCGCCTGCAT TTTCCAAGGT TTACCCTGCG CTAAGGGGCG
301 AGATTGGAGA AGCAATAAGA ATGCCGGTTG GGGTTGCGAT GATGACGACC ACGACAATG
361 GTGTCATTAT TTAAGTTGCC GAAAGAACCT GAGTGCATTT GCAACATGAG TATACTAGAA
421 GAATGAGCCA AACTTGCAG GACGCGAGTT TGCCGGTGGT GCGAACAATA GAGCGACCAT
481 GACCTTGAAG GTGAGACGCG CATAACCGCT AGAGTACTTT GAAGAGGAAA CAGCAATAGG
541 GTTGTACCA GTATAAATAG ACAGGTACAT ACAACACTGG AAATGGTTGT CTGTTTGAGT
601 ACGCTTTCAA TTCATTTGGG TGTGCACTTT ATTATGTTAC AATATGGAAG GGAACCTTAC
661 ACTTCTCCTA TGCACATATA TTAATTAAG TCCAATGCTA GTAGAGAAGG GGGGTAACAC
721 CCCTCCGCGC TCTTTTCCGA TTTTTTCTA AACCGTGAA TATTTCCGAT ATCCTTTTGT
781 TGTTTCCGGG TGTACAATAT GGAATCCTC TTTTCTGGCA ACCAAACCCA TACATCGGGA
841 TTCCTATAAT ACCTTCGTTG GTCTCCCTAA CATGTAGGTG GCGGAGGGGA GATATACAAT
901 AGAACAGATA CCAGACAAGA CATAATGGGC TAAACAAGAC TACACCAATT AACTGCCTC
961 ATTGATGGTG GTACATAACG AACTAATACT GTAGCCCTAG ACTTGATAGC CATCATCATA
1021 TCGAAGTTTC ACTACCCTTT TTCCATTTGC CATCTATTGA AGTAATAATA GCGCATGCA
1081 ACTTCTTTTC TTTTTTTTTC TTTTCTCTCT CCCCCGTTGT TGTCTACCA TATCCGCAAT
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1801 TTTGGAATCA CTACAGGGAT GTTAAATACC ACTACAATGG ATGATGTATA TAACTATCTA
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1921 AGGGCGAGCG CCGCCATGGA GTACCCATAC GACGTACCAG ATTACGCTCA TATGGCCATG
1981 GAGGCCAGTG AATTCCACCC GGGTGGGCAT CGATACGGGA TCCATCGAGC TCGAGCTGCA
2041 GATGAATCGT AGATACTGAA AAACCCGCA AGTTCCTTC AACTGTGCAT CGTGACCAT
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2281 GCTTTGACT TCTTCGCCAG AGGTTTGGTC AAGTCTCAA TCAAGTTGT CGGCTTGCT
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2401 GACACTTCTA AATAAGCGAA TTTCTTATGA TTTATGATT TTATTATTA ATAAGTTATA

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7981 TCGTTGCT

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